

2021 academic opportunities

ASABE 2021 International Symposium on Soil Erosion Research under a Changing Climate

- <https://www.asabe.org/21SoilErosion>
- ~~Abstracts due by Saturday, February 15, 2020~~
- Sunday, January 10–Friday, January 15, 2021
- Punta Borinquén Resort, Aguadilla, Puerto Rico
- Submitted abstract
 - Modification of the Universal Soil Loss Equation Model with Climate-Change Induced Parameters and Process Automation
 - Authors: [Sudhanshu Panda](#), [Owen Smith](#), [Huidae Cho](#), [Johnny M. Grace III](#), [Devendra M. Amatya](#), [Peter V. Caldwell](#)

The Free and Open Source Software Developers' European Meeting (FOSDEM) 2021

- <https://fosdem.org/2021/>
- <https://www.osgeo.org/foundation-news/osgeo-at-fosdem-2021-online-call-for-participation/>
- <https://fosdem.org/2021/schedule/track/geospatial/>
- Saturday, February 6–Sunday, February 7, 2021
- Online
- ~~Abstracts due by Saturday, December 26, 2020~~
- Accepted abstract
 - r.accumulate: Efficient computation of hydrologic parameters in GRASS—Improving the performance of geospatial computation for web-based hydrologic modeling
 - Author: [Huidae Cho](#)
 - Abstract: The longest flow path is one of the most important geospatial parameters that is used for hydrologic analysis and modeling. However, there are not many available GIS tools that can compute this watershed parameter. At the same time, there have been almost little to no efforts in improving its computational efficiency since its first, to the presenter's best knowledge, introduction by Smith (1995) when the geospatial data resolution was relatively coarser. In this talk, the presenter introduces a new algorithm that applies Hack's law to the discovery of the longest flow path and its efficient implementation as a GRASS module called r.accumulate. He compares its performance to that of commercial ArcHydro's Longest Flow Path tool. Lastly, he introduces a proof-of-concept version of the Web-based Hydrologic Modeling System (WHydroMod) built using GRASS, PyWPS, MapServer, and OpenLayers, and discusses how r.accumulate can be used to improve the efficiency of geospatial computation for WHydroMod.
 - Start time: Sunday, February 7, 2021 at 2:40pm CET (same day at 8:40am EST)
 - Room: D.geospatial
- [FOSDEM 2021 video email to speakers](#)

Georgia Water Resources Conference (GWRC) 2021

- <https://rivercenter.uga.edu/georgia-water-resources-conference/>
- <https://rivercenter.uga.edu/propose-a-session/>
- Monday, March 22–Tuesday, March 23, 2021
- Online
- Abstracts due by Friday, January 22 at 4pm EST
- Abstract to submit
 - Bayesian uncertainty estimation in hydrologic modeling
 - Comparison of Bayesian Model Averaging and GLUE Weighting Methods for Uncertainty Estimation in Hydrologic Modeling
 - Evaluation of Four GLUE Likelihood Measures and Behavior of Large Parameter Samples in ISPSO-GLUE for TOPMODEL

Asia Oceania Geosciences Society (AOGS) 18th Annual Meeting

- <https://www.asiaoceania.org/aogs2021/>
- Sunday, August 1–Friday, August 6, 2021
- Online
- Abstracts due by Tuesday, February 23, 2021
- Early registration Tuesday, March 23–May 18, 2021

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